Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-02-15-26** **Date: 27/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/297/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-21
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	20/01/2021	27/01/2021	150.79 X 150.96 X 150.67	22764	8.601	431.1	18.9	18.6
2	Culvert Bottom Slab Concrete	M20	20/01/2021	27/01/2021	151.22 X 149.83 X 149.57	22654	8.216	424.1	18.7	
3	Culvert Bottom Slab Concrete	M20	20/01/2021	27/01/2021	151.63 X 149.15 X 151.97	22615	8.480	413.6	18.3	

* The results obtained are satisfactory as per standard requirements

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ಬ.ಬ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-10

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FOR CIVIL Pro.
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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/01/2021

Lab ID	:	CP-2021-02-15-26
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-21
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Culvert Side Wall Concrete	M20	23/01/2021	30/01/2021	149.59 X 150.54 X 151.07	22518	8.601	407.3	18.1	18.4
2	Culvert Side Wall Concrete	M20	23/01/2021	30/01/2021	149.64 X 151.51 X 151.98	22672	8.216	429.5	18.9	
3	Culvert Side Wall Concrete	M20	23/01/2021	30/01/2021	150.11 X 149.49 X 151.00	22440	8.490	406.8	18.1	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/01/2021

Lab ID	:	CP-2021-02-15-26
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-21
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	23/01/2021	30/01/2021	151.80 X 149.02 X 151.33	22621	8.601	415.5	18.4	18.4
2	Culvert Side Wall Concrete	M20	23/01/2021	30/01/2021	151.76 X 151.06 X 150.30	22925	8.216	418.1	18.2	
3	Culvert Side Wall Concrete	M20	23/01/2021	30/01/2021	150.38 X 149.74 X 151.64	22518	8.490	416.9	18.5	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-02-15-26 **Date: 25/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-01-21
Customer ID	:	Drain Bottom Slab Concrete.
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/01/2021	25/01/2021	151.95 X 149.57 X 150.02	22727	8.601	430.8	19.0	18.5
2	Drain Bottom Slab Concrete	M20	18/01/2021	25/01/2021	149.38 X 150.97 X 150.23	22551	8.216	413.4	18.3	
3	Drain Bottom Slab Concrete	M20	18/01/2021	25/01/2021	150.78 X 149.97 X 151.59	22613	8.490	411.0	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/02/2021

Lab ID	:	CP-2021-02-15-26
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	18/01/2021	15/02/2021	150.28 X 150.31 X 150.38	22588	8.644	533.6	23.6	23.2
2	Drain Bottom Slab Concrete	M20	18/01/2021	15/02/2021	150.75 X 150.52 X 149.67	22692	8.713	515.8	22.7	
3	Drain Bottom Slab Concrete	M20	18/01/2021	15/02/2021	151.39 X 151.17 X 151.16	22886	8.033	529.1	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-02-15-26
		Date: 28/01/2021
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	21/01/2021	28/01/2021	151.67 X 151.64 X 150.67	22999	8.601	414.1	18.0	18.5
2	Drain Side Wall Concrete	M20	21/01/2021	28/01/2021	150.95 X 151.43 X 150.43	22858	8.216	428.3	18.7	
3	Drain Side Wall Concrete	M20	21/01/2021	28/01/2021	151.20 X 151.11 X 151.19	22848	8.490	428.4	18.8	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-02-15-26 **Date: 15-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangaloee.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.86	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.7	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-15-26** **Date: 15-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2021-02-15-26** **Date: 15-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	12-01-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2021-02-15-26 Date: 23-01-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-01-21
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	19/01/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-15-26

Date: 25/01/2021

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at 12th B Main and Surrounding Areas of B Sector in Ward No:04"

Agency : Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079

Customer's Reference : BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-01-21

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/01/2021	25/01/2021	150.02 X 150.52 X 150.54	22582	8.601	425.6	18.8	18.8
2	Drain Bottom Slab Concrete	M20	18/01/2021	25/01/2021	149.28 X 149.64 X 149.36	22338	8.216	423.6	19.0	
3	Drain Bottom Slab Concrete	M20	18/01/2021	25/01/2021	149.49 X 149.18 X 151.21	22301	8.490	412.9	18.5	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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****End of Report****

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

To,

Date: 20-02-2021

ASSISTANT EXECUTIVE ENGINEER

YELAHANKA SATELLITE TOWN SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of "IMPROVEMENTS TO ROADS AND DRAINS AT 12TH B MAIN AND SURROUNDING AREAS OF B SECTOR IN WARD NO:04."

Ref: 1. Work Order No: BBMP/EE/YNK.D/EPMT-5/W.O/207/2020-21

2. Job code: 004-21-000013

We are here with forwarding to Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079. First and Final bill duly verified and certified that the Work is satisfactory and for a Gross Value of RS.1,00,71,209.00 /-(RS. One Crore Seventy One Thousand Two Hundred and Nine Only).

Thanking you,

Yours faithfully,

For Civil Pro

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

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